

CLAIM AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 (currently amended). An integrated circuit, comprising:

lines, including a first line and a second line, for carrying one of DC voltages and low-frequency voltages; and

a radio-frequency (RF) filter device connected to said lines and being completely integrated in the integrated circuit for preventing and restricting a propagation of high-frequency interference signals through said lines.

2 (currently amended). The integrated circuit according to claim 1, including component parts connected to said RF filter device, said RF filter device ~~is~~ being disposed and, ~~constructed and dimensioned such that~~ for protecting said component parts ~~are protected~~ against the high-frequency interference signals transmitted through said lines and fed to said component parts.

3 (original). The integrated circuit according to claim 2, wherein said component parts generate and output further high-frequency interference signals carried by said lines, and said RF filter device is disposed, constructed and dimensioned such that said RF filter device filters out the further high-frequency interference signals generated and output by said component parts and carried on said lines.

4 (original). The integrated circuit according to claim 1, including component parts connected to said lines and generating and outputting further high-frequency interference signals carried by said lines, said RF filter device is disposed, constructed and dimensioned such that said component parts are protected against the high-frequency interference signals and also protected against the further high-frequency interference signals generated within the integrated circuit.

5 (original). The integrated circuit according to claim 1, including component parts to be protected against the high-frequency interference signals, said RF filter device is disposed in direct proximity and connected to said component parts for suppressing the high-frequency interference signals, and said component parts generating further high-frequency interference signals also being suppressed by said RF filter

device to prevent interferences in others of said component parts and to parts external to the integrated circuit.

6 (currently amended). The integrated circuit according to claim 1, including component parts connected to said RF filter device, said RF filter device is being disposed and ~~constructed and dimensioned such that~~ for causing said RF filter device ~~filters~~ to filter out the high-frequency interference signals transmitted through said lines supplying energy power required for operation, said component parts generating further high-frequency interference signals and said RF filter device suppressing the further high-frequency interference signals to prevent interference in others of said component parts and to parts external to the integrated circuit.

7 (currently amended). The integrated circuit according to claim 1, wherein said RF filter device has a capacitor connected to a reference-ground potential, said capacitor removing the high-frequency interference signals ~~through which said first line from which said RF filter device is intended to remove the high-frequency interference signals is connected to a reference-ground potential.~~

8 (currently amended). The integrated circuit according to claim 7, wherein said RF filter device has a resistor ~~inserted into~~ in said first line ~~from which said RF filter device is intended to remove~~ for removing the high-frequency interference signals.

9 (currently amended). The integrated circuit according to claim 8, wherein said RF filter device has a ~~further~~ second capacitor connected to the reference ground potential, said second capacitor removing the high-frequency interference signals ~~through which said first line from which said RF filter device is intended to remove the high-frequency interference signals is connected to the reference ground potential~~.

10 (currently amended). The integrated circuit according to claim 8, including component parts generating further high-frequency interference signals and connected to said lines, a plurality of RF filter devices, one of said RF filter devices associated with each of said component parts, said resistor and said capacitor ~~form~~ forming a low-pass filter at least partially preventing the high-frequency interference signals from reaching said component parts ~~which are~~ to be protected against the high-frequency interference signals, and said RF filter device associated with each one of said component parts

suppressing the further high-frequency interference signals from ~~each~~ the associated one of said component parts from reaching other ones of said component parts and from reaching outside of the integrated circuit.

11 (original). The integrated circuit according to claim 9, including component parts each generating further high-frequency interference signals and connected to said lines, said resistor and said further capacitor form a low-pass filter at least partially preventing the high-frequency interference signals from reaching said component parts which are to be protected against the high-frequency interference signals by said RF filter device, and said RF filter device suppressing the further high-frequency interference signals from each of said component parts from reaching other ones of said component parts and from reaching outside of the integrated circuit.

12 (currently amended). The integrated circuit according to claim 8,

wherein said capacitor is dimensioned such that energy power fed through said lines, connected to said RF filter device, can be drawn completely from said capacitor ~~given one of~~

~~regular and continuous~~ during recharging of said capacitor;
and

including component parts each generating further high-frequency interference signals and connected to said lines, said RF filter device protecting said component parts against the high-frequency interference signals, and said RF filter device suppressing the further high-frequency interference signals of each of said component parts from reaching other ones of said component parts and from reaching outside of the integrated circuit.

13 (currently amended). The integrated circuit according to claim 12, wherein said resistor is dimensioned such that a current flowing through said resistor during operation ~~suffices to keep~~ maintains said capacitor continually charged to such an extent that the ~~energy~~ power fed through said lines provided with said RF filter device to said component parts can be drawn completely from said capacitor.

14 (original). The integrated circuit according to claim 10, wherein said resistor is dimensioned such that said low-pass filter prevents a flowing of the high-frequency interference signals.

15 (currently amended). The integrated circuit according to claim 9, wherein said resistor is dimensioned such that resonances which said capacitor and said ~~further~~ second capacitor form ~~with a rest of a system and among~~ at least with one another are reduced ~~to a degree which does~~ to not interfere with an operation of the integrated circuit.

16 (original). The integrated circuit according to claim 8, wherein said resistor is dimensioned such that said resistor converts the high-frequency interference signals filtered out by said RF filter device at least partially into heat.

17 (currently amended). The integrated circuit according to claim 1, including a plurality of component parts, and a plurality of said RF filter devices, each one of said RF filter ~~device~~ devices ~~is one of a plurality of RF filter devices~~ ~~each~~ connected to different ones of said component parts.